

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/40843

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) : G06K 19/02

US CL : 235/488

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 235/488, 487; 428/167

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 4,869,946 A (CLAY) 26 September 1989 (26.09.1989), column 2 line 55 to column 4 line 55.	1, 4, 6-9, 11-16 ----- 2-3, 5, 10
Y	US 6,095,566 A (YAMAMOTO et al.) 01 August 2000 (01.08.2000), column 6, lines 15-27 and column 36, lines 21-27.	2-3, 10
Y	US 4,765,656 A (BECKER et al.) 23 August 1988 (23.08.1988), column 6 line 25 to column 8 line 60.	5
A	US 6,234,537 B1 (GUTMANN et al.) 22 May 2001 (22.05.2001), column 4 line 55 to column 5 line 37.	1-16

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

17 March 2003 (17.03.2003)

Date of mailing of the international search report

15 MAY 2003

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